

### **IN THE CLAIMS:**

A complete listing of the claims is set forth below. Please amend the claims as follows:

1.     **(Currently Amended)** A drive shaft comprising:  
          an elongated composite laminate shaft portion having opposing ends; and  
          at least one non-metallic end adapter disposed at one end of the composite laminate shaft portion, the end adapter being captured into the composite laminate shaft portion during the process of manufacturing the composite laminate shaft portion.
2.     **(Original)** The drive shaft according to claim 1, wherein the end adapter is metallic.
3.     **(Cancelled).**
4.     **(Original)** The drive shaft according to claim 1, wherein the composite material portion is formed from a braided fiber and resin transfer molded composite.
5.     **(Original)** The drive shaft according to claim 4, wherein the braided fiber is a two-dimensional braided fiber.
6.     **(Original)** The drive shaft according to claim 4, wherein braided fiber is a three-dimensional braided fiber.
7.     **(Original)** The drive shaft according to claim 1, wherein the composite material portion is formed from a filament wound composite.

8. **(Original)** The drive shaft according to claim 1, wherein the end adapter comprises:

a component interface portion adapted for coupling to a driving or driven component; and

an adapter-tube interface portion;

wherein the adapter-tube interface portion is adapted to be captured into the composite material portion during the process of manufacturing.

9. **(Original)** The drive shaft according to claim 8, wherein the end adapter further comprises:

a means for transferring torque from the end adapter to the composite material portion and vice versa.

10. **(Original)** The drive shaft according to claim 8, wherein the end adapter further comprises:

a layer of adhesive disposed between the end adapter and the composite material portion.

11. **(Original)** The drive shaft according to claim 8, wherein the end adapter further comprises:

a neck portion disposed between the component interface portion and the adapter-tube interface portion, the neck portion having a reduced cross-sectional area.

12. **(Original)** The drive shaft according to claim 8, wherein the end adapter further comprises:

at least one recessed circumferential groove around the adapter-tube interface portion.

13. **(Original)** The drive shaft according to claim 8, wherein the end adapter further comprises:

at least one outwardly protruding lug disposed at the adapter-tube interface portion.

14.    **(Original)** The drive shaft according to claim 13, wherein each lug comprises:  
          a circumferentially exterior lug face;  
          a lug flank on each side of the lug face for transmitting torque from the end adapter  
to the composite material portion and vice versa;  
          a lug base between the lug flanks of adjacent lugs; and  
          a tapered lug end on each longitudinal end of the lug for supporting axial tensile  
loads, axial compressive loads, and bending moments.
15.    **(Original)** The drive shaft according to claim 14, wherein the lug flanks of adjacent  
lugs are radially aligned.
16.    **(Original)** The drive shaft according to claim 14, wherein the lug flanks are  
longitudinally angled from zero to any degree.
17.    **(Original)** The drive shaft according to claim 14, wherein the lug flanks include a  
longitudinal crown.
18.    **(Original)** The drive shaft according to claim 13, wherein the lug is solid.
19.    **(Original)** The drive shaft according to claim 13, wherein the lug is hollowed out to  
reduce weight.
20.    **(Cancelled).**
21.    **(Cancelled).**
22.    **(Cancelled).**